Typical Calibration Sequence

RunControl Initiates Calibration Run:

- Starts Front End Crates
- Launches Calibration Consumer(s)

Front End Crate Runs Local Calibration Procedure

- Fires charge injectors at various settings (e.g. QIE calibrations)
- Reads ADC output
- Computes gains, offsets, RMS's for local channels
- Forwards summary "C Banks" (minibank format) to Software EVB

Software EVB

• Collates all crates' "C Banks" into one bank, send to Calib CSL

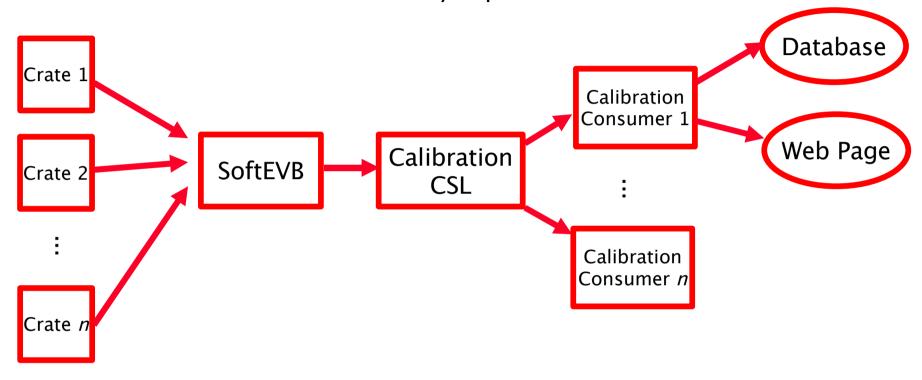
Calibration CSL recently has given trouble - try restart, see Ace Web pages

- Sends summary banks to all requesting consumers
- Runs in "VIP Mode" guarantees deliver of all events (unlike physics CSL)

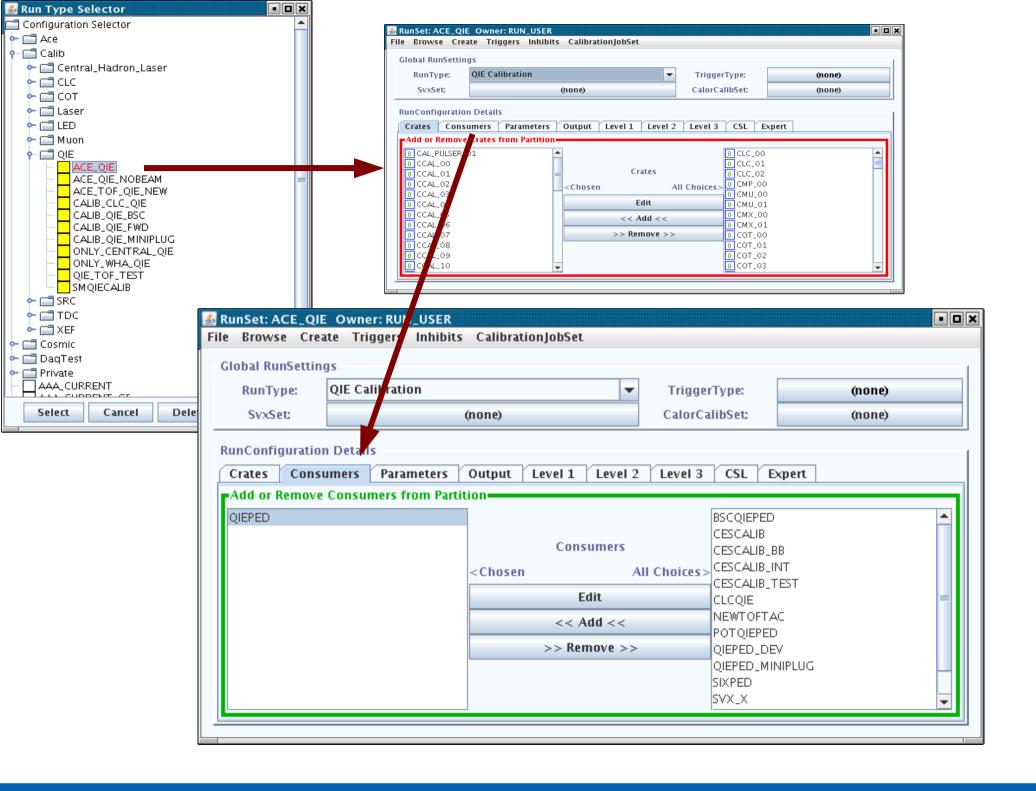
Calibration Consumers

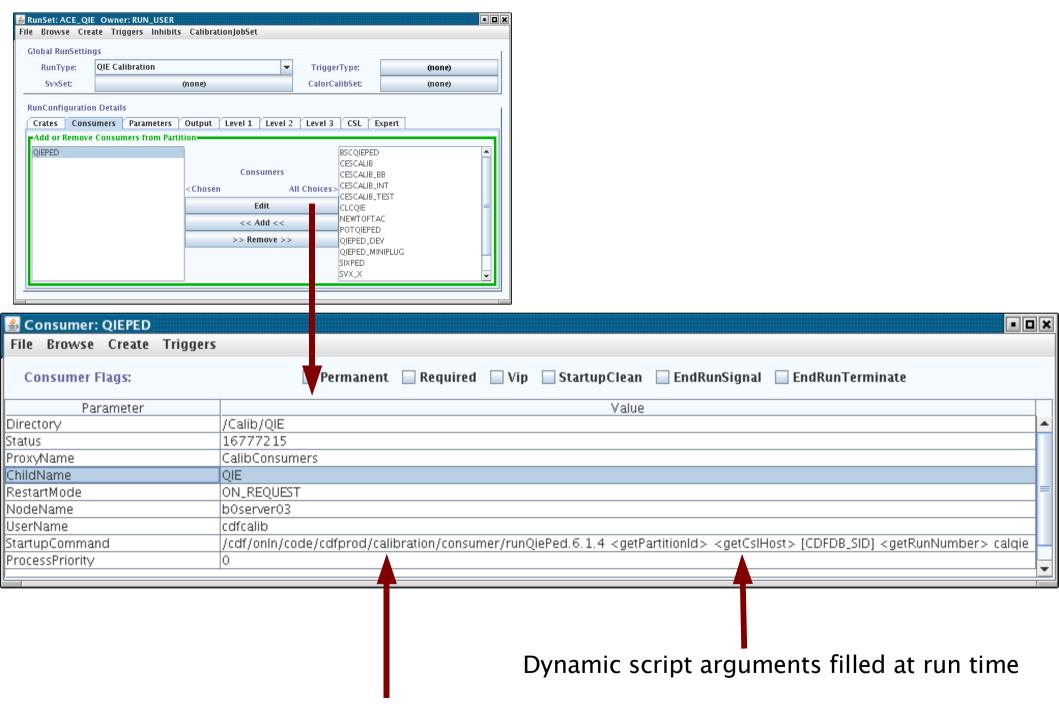
- Previously launched by RunControl, AC++ modules
- Receives "C Banks" from Calibration CSL
- Do high level analysis and write results into Calibration Database
- Upon completion, spawn DBana script to make plots and post entry in eLog

Calibration data flow NB: Raw data not normally kept



Crate CPUs

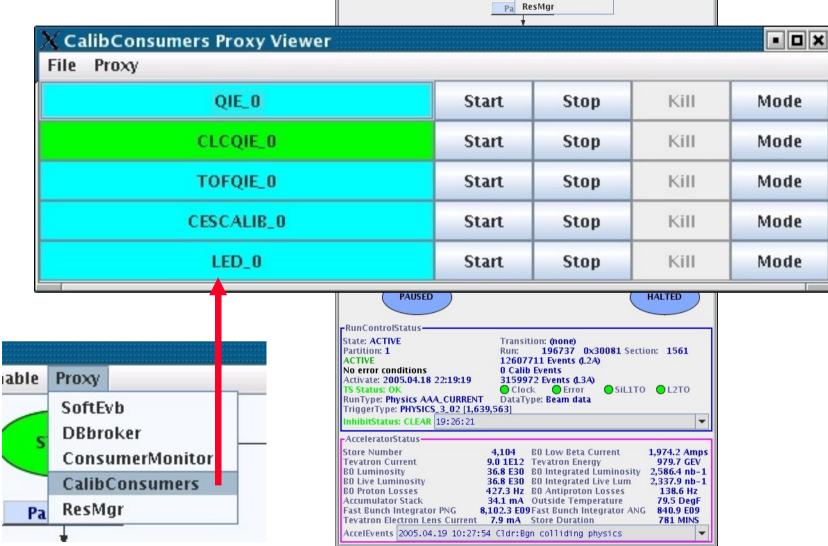




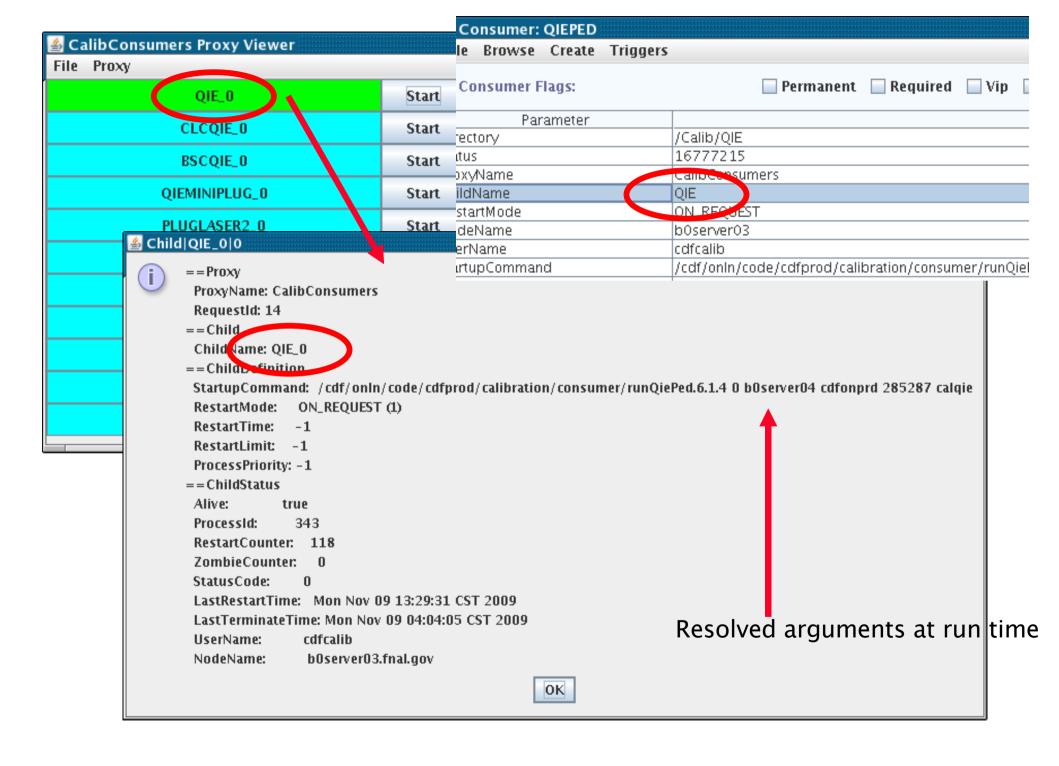
Script that launches the AC++ job owned by cdfprod account

Green: Running Cyan: Not running





Or from command line: setup fer proxyViewer CalibConsumers



Common Problems:

- Results do not show up on eLog and calibration web pages
- SoftEVB gets "stuck" during run or at end

Common Solutions:

- Restart SoftEVB via proxy control panel, easy to do, but usually not the problem
- Restart Calibration CSL, most common recent problem
 - Remember that there are two CSLs
 - Restart Calibration CSL on b0server04 under the cdfdaq account
- If you still have problems, have a look at the calibration consumer log files:
 - /cdf/onln/cdfdaq/consumers/log
 - Each calibration type and run has unique log file
- Check cdfdaq and cdfcalib account disk quotas (done in ProcMon)